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1 Reducing virtual call overheads in a Java VM just-in-time compiler
Junpyo Lee, Byung-Sun Yang, Suhyun Kim, Kemal Ebcioğlu, Erik Altman, Seungil Lee, Yoo C. Chung, Heungbok Lee, Je Hyung Lee, Soo-Mook Moon
March 2000 **ACM SIGARCH Computer Architecture News**, Volume 28 Issue 1
Full text available: pdf(994.66 KB) Additional Information: full citation, abstract, index terms

Java, an object-oriented language, uses *virtual methods* to support the extension and reuse of classes. Unfortunately, virtual method calls affect performance and thus require an efficient implementation, especially when just-in-time (JIT) compilation is done. *Inline caches* and *type feedback* are solutions used by compilers for dynamically-typed object-oriented languages such as SELF [1, 2, 3], where virtual call overheads are much more critical to performance than in Java. Wi ...

Keywords: Java JIT compilation, adaptive compilation, inline cache, type feedback, virtual method call

2 Dynamic Adaptive compilation: Adaptive online context-sensitive inlining
Kim Hazelwood, David Grove
March 2003 **Proceedings of the international symposium on Code generation and optimization: feedback-directed and runtime optimization**
Full text available: pdf(1.06 MB) Publisher Site Additional Information: full citation, abstract, references, citings, index terms

As current trends in software development move toward more complex object-oriented programming, inlining has become a vital optimization that provides substantial performance improvements to C++ and Java programs. Yet, the aggressiveness of the inlining algorithm must be carefully monitored to effectively balance performance and code size. The state-of-the-art is to use profile information (associated with call edges) to guide inlining decisions. In the presence of virtual method calls, profile ...

3 Practical virtual method call resolution for Java
Vijay Sundaresan, Laurie Hendren, Chrislain Razafimahefa, Raja Vallée-Rai, Patrick Lam, Etienne Gagnon, Charles Godin
October 2000 **ACM SIGPLAN Notices , Proceedings of the 15th ACM SIGPLAN conference on Object-oriented programming, systems, languages, and applications**, Volume 35 Issue 10
Full text available: pdf(323.98 KB) Additional Information: full citation, abstract, references, citings, index terms